

41. A fulfillment management system for use in an electronic marketplace, comprising:

a database operable to store:

- 5 a supply vector identifying when one or more quantities of at least one product have or will become available;
- at least one accepted component promise;
- at least one commit transaction associated with each accepted component promise; and
- 10 at least one supply transaction associated with a product; and one or more processors collectively operable to:
- receive at least one component available-to-promise (ATP) request using Hypertext Transfer Protocol (HTTP), each component ATP request corresponding to an ATP request line-item for a desired product;
- retrieve from the database at least a portion of the supply vector
- 15 associated with the desired product for each component ATP request;
- search the retrieved information, in reverse chronological order starting at a requested ship date, for a requested quantity of the desired product;
- determine whether the total requested quantity is available between the requested ship date and a lower bound of a date range;
- 20 search the retrieved information, in chronological order starting at the requested ship date, for the remaining requested quantity when the total requested quantity is not available;
- determine whether the total requested quantity is available between the lower bound and an upper bound of the date range;
- 25 generate a component quotation for each component ATP request based on the search of the retrieved information; and
- communicate the component quotation for consolidation with other component quotations.